

# • COLORADO RIVER • AQUEDUCT NEWS

THE METROPOLITAN WATER DISTRICT



OF SOUTHERN CALIFORNIA

VOLUME XXV

JULY, 1958

NUMBER 7

## District Growth Important To Southland Economic Welfare

The tremendous importance of the Metropolitan Water District and its Colorado River Aqueduct to the economic welfare of Southern California is clearly evidenced by the phenomenal growth of the District since the completion of the aqueduct in its initial development in 1941, it was pointed out this month by District Board Chairman Joseph Jensen.

"When Colorado River water first flowed into the coastal plain of Southern California through the Colorado River Aqueduct in June, 1941, the Metropolitan Water District was comprised of 13 cities with a total area of 609 square miles, a population of 2,035,371 and an assessed valuation of \$1,900,599,934," Mr. Jensen stated.

"Today the District includes 83 incorporated cities and large unincorporated areas covering 3,198 square miles, a population of 6,824,000 and an assessed valuation of approximately \$11,500,000,000," Mr. Jensen declared. "This is nearly half of the population and assessed valuation of the entire State of California."

The Metropolitan Water District began to grow in 1942 when the Coastal Municipal Water District annexed to the District, thereby becoming eligible to receive Colorado River water. It was followed in 1946 by the San Diego County Water Authority and in 1948 by the West Basin Municipal Water District.

In rapid succession other major water districts sought permission to annex to the District and were accepted. These include Pomona Valley Municipal Water District in 1950; Eastern Municipal Water District, Chino Basin Municipal Water District and Orange County Municipal Water District, all in 1951; Foothill Municipal Water District in 1953; and Central Basin Municipal Water District and Western Municipal

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Pipe laying on a part of the Second San Diego Aqueduct being constructed by the Metropolitan Water District is shown in the photo above. The pipe is 75-inch inside diameter precast concrete pipe and is being made by the United Concrete Pipe Corporation. The contract for the installation of the pipe is held by Ukropina, Polich and Kral and has a completion date of June 30, 1959.

This work is located in Riverside County northeast of Temecula.

## Two Major Contracts On Aqueduct Expansion Awarded

Two major steps to bring additional Colorado River water to Southern California were taken by the Metropolitan Water District this month with the awarding of two contracts in the amounts of \$4,600,000 and \$6,500,000 for the construction of nearly 20 miles of canal and more than 7 miles of pipe siphons, respectively, on the Colorado River Aqueduct system.

District General Manager and Chief Engineer Robert B. Diemer said that although most of the canal construction will consist of a new line to deliver additional water to San Diego areas, this work also includes nearly 5 miles of canal on the main Colorado River Aqueduct. The pipe siphon construction will consist of 7 miles of siphons on the main aqueduct and one-half mile of siphons on the San Diego line.

He pointed out that while the main aqueduct was completed in its initial

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**AQUEDUCT NEWS**

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

306 West Third Street  
 Los Angeles, California

Published monthly in the interest of Field and Office workers on the Colorado River Aqueduct, and for the information of all other citizens of the Metropolitan Water District.

Vol. XXV July, 1958 No. 7

## District Statement On San Luis Reservoir Bills

Warren W. Butler, Vice Chairman of the Board of Directors of the Metropolitan Water District, in a statement filed recently with members of Congress, declared that while the District is in favor of the construction of the San Luis Reservoir Project on an equitable basis between the State and the Federal Government, some provisions of pending legislation which would authorize this project are highly objectionable to Southern California and to the District's governing Board. He stated that the District supports the San Luis Reservoir construction bill (H. R. 9969) introduced by Congressman Harlan Hagen, and has expressed approval of a similar bill (H. R. 2452) introduced by Congressman Craig Hosmer.

## Major Contracts Awarded

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development in 1941, provisions had been made for future expansion when the demand for additional water made such expansion necessary.

"Since 1952 the Metropolitan Water District has been engaged in a \$200 million expansion program to bring the Colorado River Aqueduct to its full-planned delivery capacity of more than one billion gallons of water a day," Mr. Diemer declared. "The contracts just awarded are a part of this program."

All of the work under both of the contracts is located in Riverside County. The canal will extend from the San Jacinto Valley southerly to Auld Valley. It will be concrete-lined and will have a capacity of 1000 cubic feet of water per second.

The pipe siphon construction will consist of 7 miles of precast reinforced concrete pipe on the main aqueduct between a point about 2 miles north of the City

## Ferdinand Mendenhall Named to District Board



Ferdinand Mendenhall, who has been named to the District Board of Directors as an additional Los Angeles representative.

Ferdinand Mendenhall, Managing Editor and Co-publisher of the Van Nuys News, has been named a member of the Metropolitan Water District Board of Directors. He joins the seven other members who represent the City of Los Angeles on the District Board.

Mr. Mendenhall was born in Burlington Junction, Missouri. He is a graduate of Van Nuys High School and Stanford University. During World War II he served four years in the Navy in the European and Pacific theaters and was discharged with the rank of Lieutenant Commander.

He served as Vice President of the City Planning Commission from August, 1952 to August, 1955. He is Vice President of the Van Nuys Chamber of Commerce and a member of the directorate of the San Fernando Valley Federal Savings and Loan Association. He is Vice President of the Valley Presbyterian Hospital and a member of its Executive Committee. Mr. Mendenhall is also very active in a large number of other civic and fraternal organizations.

of San Jacinto and a point about 4 miles north of the City of Perris, together with approximately .50 miles of siphon construction for the San Diego line between the main aqueduct and Auld Valley.

Nine bids were received by the District for the canal construction with the

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## For the RECORD

(The following items are noted from the report of General Manager and Chief Engineer Robert B. Diemer, filed July, 1958 covering District operations for June, 1958).

**Colorado River**—The water surface of Lake Mead rose 20.06 feet to elevation 1205.43 feet above sea level and usable storage increased 2,853,000 acre-feet to 24,760,000 acre-feet on June 30. The Lake Mead water surface at the end of the month was 15.97 feet below the crest of the spillway and the storage 2,447,000 acre-feet less than the controlled storage capacity of the reservoir. The discharge at Hoover Dam averaged 13,900 cubic feet per second. Discharge at Parker Dam averaged 14,400 cfs.

**Pumping and Power**—Hayfield plant pumped 50,293 acre-feet during June. Pumping was on a 4-pump basis until June 10, and after that time a fifth pump was used intermittently to maintain a 4½ pump flow for the balance of the month except on June 4 and 5 when operations were on a 3-pump basis while removing bulkhead No. 6 at Eagle Mountain. The District's system was out of parallel with the Edison system 1 hour 29 minutes but was continuously in parallel with Parker-Davis system and Hoover power plant. Peak deliveries to and from Edison Co. were 88,000 kw and 110,000 kw, respectively.

**Weymouth Softening and Filtration Plant**—Colorado River water was softened from 313 ppm of hardness to 192 ppm at an average rate of 45.7 cubic feet per second during June. The daily rate of flow varied between 416 and 521 cfs.

**Construction**—Construction work on the distribution system progressed as follows: Schedule 62P (Culver City Lateral) work is 86% complete; Schedules 63P and 64P (Culver City Lateral) work is 97% complete; Schedules 76SC, 77SC and 78SC (Lower Feeder) the contract is 23% complete; Schedules SD-8P and SD-9P (San Diego Aqueduct) the contract is 16% complete.

**Pumping Plant Expansion**—The contract on installation of Pumping Units 7, 8 and 9 is 15% complete; Pump Delivery Line No. 3 is 68% complete.

Siphon work on main aqueduct—Contracts 669 and 672—is 69% complete.

**Purchasing**—The total expenditures in June amounting to \$217,784 were covered by 419 purchase orders and 5 agreements.

## Death of Albert W. McKinlay Mourned by Entire District



Albert W. McKinlay

Albert W. McKinlay, Controller for the Metropolitan Water District of Southern California, died Friday, July 11, at the Good Samaritan Hospital. He was 65 and resided at 1725 Virginia Road, San Marino.

Funeral services were conducted at the First Presbyterian Church in Azusa at 10:30 A.M. Thursday, July 17. Burial was at Oakdale Cemetery near Covina. A large number of District Directors, officers and employees attended the services.

In August of last year Mr. McKinlay was suddenly stricken with an illness resulting from a blood disorder. Following a period of convalescence he returned to his duties as District Controller early this year. Early in June he suffered a recurrence of his previous illness, complicated by pneumonia.

Mr. McKinlay was born in St. Louis, Missouri, where he attended the public schools and Washington University, near that city. He majored in Civil Engineering. He later enrolled in a correspondence course in Higher Accounting with the LaSalle University at Chicago, Illinois.

He then entered the employment of Stone and Webster Engineering Corporation of Boston, Massachusetts where he worked in many capacities on construction projects throughout the United States. These works included office and service buildings, steam and water electric generating plants, tunnel construction, electric power transmission lines and airplane landing fields.

In 1932 he became associated with the Metropolitan Water District as Chief

## Growth of District

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Water District of Riverside County in 1954.

During this period and still continuing, other water districts, irrigation districts and areas were and are annexing to the aforementioned water authority and districts, thus expanding the boundaries of the Metropolitan Water District. At the present time there are a number of annexations pending that would increase the District area by nearly 350 more square miles.

In 1952 the District embarked on a \$200 million expansion program to bring the Colorado River Aqueduct to its full-planned delivery capacity and to enlarge its distribution system to furnish its growing service area with a supplemental water supply. It has been estimated by District engineers that the additional water to be made available by the work will be enough to supply District areas with sufficient water until about 1975.

Also in 1952, foreseeing the speculation that would arise as to the distribution of water from Northern California in this area, the District Board of Directors adopted the following policy:

Accountant on the construction of the Colorado River Aqueduct. In 1949 he was appointed Controller of the District, succeeding James M. Luney, who had retired.

As Controller for the District, Mr. McKinlay performed all auditing and general functions and maintained all general ledgers which display the complete fiscal affairs of the District.

He also prepared the reports and assembled certificates of the county auditors relating to assessed valuations upon which tax levies are determined, prepared the budgets each year for the operation and maintenance of the Aqueduct and the servicing and amortization of contracts, agreements, bonds and other obligations of the District.

In the last year he was in charge of the issuance of two short-term bond issues in the amounts of \$15,000,000 and \$18,000,000, the first short-term bonds ever issued by the District.

Mr. McKinlay was an active Shriner and a member of Al Malaikah Temple. He was a member of a number of social and professional organizations including the Los Angeles University Club, Los Angeles Electric Club and American Water Works Association.

Mr. McKinlay is survived by his wife, Ruth Ellington McKinlay, and two sisters, Alice McKinlay, of Chicago, Illinois, and Mrs. Clarence Malone, of Springfield, Illinois.

"The Metropolitan Water District of Southern California is prepared, with its existing governmental powers and its present and projected distribution facilities, to provide its service area with adequate supplies of water to meet expanding and increasing needs in the years ahead. The District is now providing its service area with a supplemental water supply from the Colorado River. When and as additional water resources are required to meet increasing needs for domestic, industrial and municipal water, the Metropolitan Water District of Southern California will be prepared to deliver such supplies."

## Contracts Awarded

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contract being awarded to the Winston Bros. Company, the low bidder. District furnished materials, engineering, rights-of-way and other costs will bring the total investment on this work to about \$6,500,000.

Three bids were received for the pipe siphon construction. The American Pipe and Construction Company was the low bidder and was awarded the job. Additional costs will bring this total investment to about \$7,500,000.

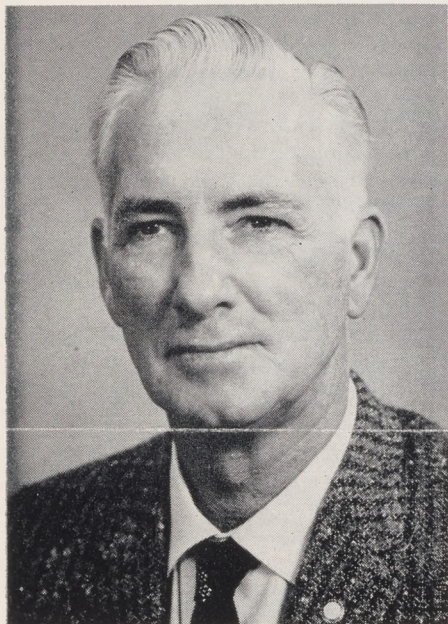
Speaking for the Board of Directors of the Metropolitan Water District of Southern California and all of its officers and employees, Chairman Joseph Jensen said:

"In the passing of Albert W. McKinlay, the people of Southern California have lost a loyal, courageous, industrious and brilliant public servant, dedicated to his duties and to those with whom he lived and worked. To all who had the good fortune to be near him, he was affectionately known as 'Mac'. He came with the Metropolitan Water District in its early days—1932—and he has been the District's Controller since 1949.

"The Metropolitan Water District has grown from a construction job in 1932 to a public organization operating the longest and largest domestic water supply system in the United States—and 'Mac' played a big and important part in bringing the District to its present and vital place in the welfare of millions of our people. His skilful handling of the intricate financial aspects of the District's operations gained for him the admiration and respect of those who are high in financial circles.

"We will always carry with us the memory of Mr. McKinlay's friendly, genuine and ever-ready smile. He was a devoted husband, a warm and always helpful co-worker, a public spirited citizen and a true Christian."

# NEWS FROM FIELD AND OFFICE



Tom J. Cain—25 Years of Service

Tom J. Cain became eligible for his 25-year service pin on July 5, having been first employed by the District on July 5, 1933 as a Chainman on main aqueduct surveys. Tom advanced to Instrumentman, and spent 3 years surveying for main aqueduct construction work before transferring to the distribution system as an Inspector on pipe line construction work.

In 1941, Tom became a Patrolman on the westerly portion of the main aqueduct and the easterly portion of the upper feeder, and in 1949 was made Division Foreman in immediate charge of operating and maintaining the District's portion of the San Diego Aqueduct, with headquarters at San Jacinto Reservoir.

Tom has also had an active part in the District's current expansion program. He was the Senior Inspector on the construction of the Cajalco and San Juan tunnels on the lower feeder. At present he is the Resident Engineer in immediate charge of supervising the installation of the second barrel of main aqueduct siphons between Whitewater and the Colorado River.

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Danny Lee Milts, son of Maintenance Man Ray Milts and Mrs. Milts at Lake Mathews, was one of the boys chosen for the Arlington Little League All Star Team in the play-offs. Danny is 11 years old and is the League's home-run king, with 7 homers to his credit. He also collected 25 hits in 45 times at bat for a remarkable .556 average. He plays shortstop and relief pitcher.

Roger Sutton, Engineering Aide, and his wife, Gwen, became parents for the first time on June 29 when a baby boy was born to them at St. Luke's Hospital in Pasadena. The young man weighed 8 pounds and has been named Roger William, Jr.

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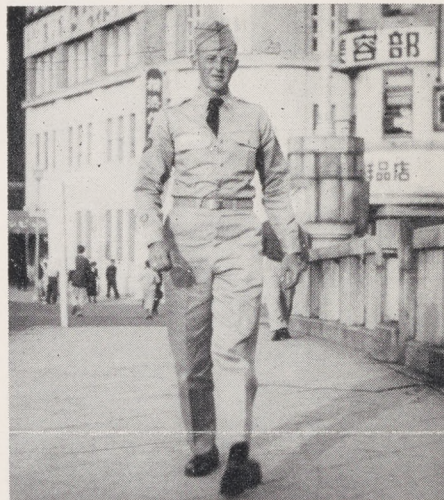
Floyd Mullen, Maintenance Man at Lake Mathews, who retired recently, was the guest of honor at a party on June 29. Floyd had been a District employee for more than 17 years. Approximately 200 people were in attendance at the party including Mr. and Mrs. Robert B. Diemer, Mr. and Mrs. H. J. (Hank) Mills and many other co-workers and friends of Floyd. He was presented with a pocket watch from his MWD friends and a scroll for faithful service with the District. Mrs. Mullen received a lovely corsage.

\* \* \*

Donald J. Whitlock, Deputy General Counsel, and his wife, Barbara, are the proud parents of a baby son born June 18 at the Hoag Memorial Hospital in Newport Beach. The new arrival is the Whitlock's third child and weighed 6 pounds, 13 ounces. He has been named Scott Lindsey.

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George Fox, Associate Engineer at Lake Mathews, who recently underwent surgery for a torn cartilage in his right knee at the Riverside Community Hospital, is now recuperating nicely and hopes to be back at work soon.



SP/5 Lester L. Smith

Lester L. Smith, who is with the Transportation Corps of the U.S. Army in Yokohama, Japan, has just been promoted to an SP/5. He hopes to bring his wife, Kauzako, and his baby son, Vincent James, to the United States in August. Lester is the son of James L. Smith, an Assistant Engineer in the Electrical Division.

\* \* \*

Donald E. Broe, Junior Engineering Aide, and his wife, Charlene, became parents for the second time on July 14 when they welcomed a baby daughter at the San Bernardino Community Hospital. Named Sandra Lynn, the young lady weighed 8 pounds, 14 ounces upon arrival.



Approximately 250 District employees and their families and friends attended the annual picnic at the San Dimas Foothill Park on July 13. A gala time was enjoyed by everyone and many described the picnic as "the best ever". Shown above are a number of youngsters who were winners in some of the games that were played. Left to right are Diane Preston, daughter of Al Preston; Tom Fee, son of Rufus Fee; Kathryn Hess, granddaughter of former employee Barney Jacoby; Mike Marshall, son of Raymond Marshall; Ron Streicher, son of Lee Streicher; and Will Alderson, son of Walter Alderson.

In the background are Hal Pearson, left, and Munson Dowd, who directed the games.